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STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Lavery
EPA

ANGUS S. KING, JR.

MARTHA KIRKPATRICK
COMMISSIONER

GOVERNOR
December 13, 2002

Mr. Frank S. Kearney Sr.
Mars Hill Utility District
P. O. Box 342, 70 Mill Street
Mars Hill, Maine 04758

RE: Maine Pollutant Discharge Elimination System (MEPDES) Permit #ME0101079
Maine Waste Discharge License (WDL) Application #W000842-5L-E-M
Final Permit/License Modification/Renewal

Dear Mr. Kearney:

Enclosed please find a copy of your **final** MEPDES permit and Maine WDL **modification/renewal** which was approved by the Department of Environmental Protection. This permit/license supersedes National Pollutant Discharge Elimination System (NPDES) permit #ME0101079, last issued for by the Environmental Protection Agency (EPA) on September 25, 2000. Please read the permit/license modification/renewal and its attached conditions carefully. You must follow the conditions in the permit/license to satisfy the requirements of law. Any discharge not receiving adequate treatment is in violation of State Law and is subject to enforcement action.

Any interested person aggrieved by a Department determination made pursuant to applicable regulations, may appeal the decision following the procedures described in the attached DEP FACT SHEET entitled "*Appealing a Commissioner's Licensing Decision*."

We would like to make you aware of the fact that your monthly Discharge Monitoring Reports (DMR) may not reflect the revisions in this permitting action for several months however, you are required to report applicable test results for parameters required by this permitting action that do not appear on the DMR.

If you have any questions regarding the matter, please feel free to call me at 287-7693.

Sincerely,

Gregg Wood
Division of Water Resource Regulation
Bureau of Land and Water Quality
Enc.

cc: William Sheehan, DEP/NMRO Theodore Lavery, USEPA Joan Serra, USEPA

AUGUSTA
17 STATE HOUSE STATION
AUGUSTA, MAINE 04333-0017
(207) 287-7688
RAY BLDG., HOSPITAL ST.

BANGOR
106 HOGAN ROAD
BANGOR, MAINE 04401
(207) 941-4570 FAX: (207) 941-4584

PORTLAND
312 CANCO ROAD
PORTLAND, MAINE 04103
(207) 822-6300 FAX: (207) 822-6303

PRESQUE ISLE
1235 CENTRAL DRIVE, SKYWAY PARK
PRESQUE ISLE, MAINE 04769-2094
(207) 764-0477 FAX: (207) 764-1507



STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE HOUSE STATION 17 AUGUSTA, MAINE 04333

DEPARTMENT ORDER

IN THE MATTER OF

MARS HILL UTILITY DISTRICT)	MAINE POLLUTANT DISCHARGE
MARS HILL, AROOSTOOK COUNTY, ME.)	ELIMINATION SYSTEM PERMIT
PUBLICLY OWNED TREATMENT WORKS)	AND
W000842-5L-E-M)	WASTE DISCHARGE LICENSE
ME0101079)	MODIFICATION/RENEWAL
APPROVAL		

Pursuant to the provisions of the Federal Water Pollution Control Act, Title 33 USC, Section 1251, et. seq. and Maine Law 38 M.R.S.A., Section 414-A et. seq., and applicable regulations, the Department of Environmental Protection (Department) has considered the application of the MARS HILL UTILITY DISTRICT (MHUD), with its supportive data, agency review comments, and other related materials on file and FINDS THE FOLLOWING FACTS:

APPLICATION SUMMARY

The applicant has applied for modification and renewal of Department Waste Discharge License (WDL) #W000842-5L-C-R, which was issued on November 24, 1999 and is due to expire on November 24, 2004. The WDL authorized the MHUD to discharge up to a monthly average of 1.0 million gallons per day (MGD) of secondary treated sanitary waste waters from a publicly owned treatment works facility to Prestile Stream, Class B, in Mars Hill, Maine.

On January 12, 2001, the Department received authorization from the U.S. Environmental Protection Agency (EPA) to administer the the National Pollutant Discharge Elimination System (NPDES) permit program in Maine. From this point forward, the program will be referenced as the Maine Pollutant Discharge Elimination System (MEPDES) permit program and permit #ME0101079 (same as the NPDES permit) will be utilized as the reference permit number.

MODIFICATION REQUEST

The MHUD has requested to modify the 11/24/99 WDL to incorporate the terms and conditions of the MEPDES permitting program and establish a "sliding scale" discharge regime by which a dilution factor of 114:1 will be maintained at all times. The 11/24/99 WDL established a discharge prohibition when the flow in Prestile Stream is less than 174 cfs. The MHUD has also requested the Department incorporate the ground water monitoring requirements contained in an April 30, 1992 Site Location of Development Order issued by the Department into the MEPDES permit and relieve them of their obligation to continue ground water monitoring under the Site Location of Development Order.

PERMIT SUMMARY

This permit/license action is:

- 1) Carrying forward the monthly average flow limitation of 1.0 MGD.
- 2) Carrying forward the monthly average, weekly average and daily maximum best practicable treatment (BPT) concentration and mass limits for biochemical oxygen demand (BOD) and total suspended solids (TSS) based on a flow of 1.0 MGD.
- 3) Carrying forward the daily maximum BPT limits for settleable solids and pH.
- 4) Carrying forward the monthly average (geometric mean) and daily maximum water quality based limits for *E. coli* bacteria.
- 5) Establishing a water quality based daily maximum concentration limit for total residual chlorine.
- 6) Carrying forward the requirement to measure the flow in Prestile Stream on a daily basis.
- 7) Eliminating surveillance level chemical specific (priority pollutant) testing based on criteria established in Department rule Chapter 530.5, *Surface Water Toxics Control Program*.
- 8) Establishing a sliding scale discharge regime by which a dilution factor of 50:1 is maintained at all times during the time periods March 1st – May 31st and October 1st - November 30th and maintain a dilution factor of 75:1 during the time periods December 1st - February 28th and June 1st – September 30th.
- 9) Establishing weekly average mass and concentration limits for total phosphorus if the MHUD discharges during the period May 15th – September 30th.
- 10) Eliminating the prohibition to discharge to Prestile Stream when the the stream is less than 174 cfs.
- 11) Incorporating the terms and conditions of the MEPDES permitting program.
- 12) Incorporating monitoring requirements for two of the four existing ground water monitoring wells.

CONCLUSIONS

BASED on the findings in the attached Fact Sheet dated October 22, 2002 (revised on November 25, 2002), and subject to the Conditions listed below, the Department makes the following conclusions:

1. The discharge, either by itself or in combination with other discharges, will not lower the quality of any classified body of water below such classification.
2. The discharge, either by itself or in combination with other discharges, will not lower the quality of any unclassified body of water below the classification which the Department expects to adopt in accordance with state law.
3. The provisions of the State's antidegradation policy, 38 MRSA Section 464(4)(F), will be met, in that:
 - (a) Existing in-stream water uses and the level of water quality necessary to protect and maintain those existing uses will be maintained and protected;
 - (b) Where high quality waters of the State constitute an outstanding national resource, that water quality will be maintained and protected;
 - (c) The standards of classification of the receiving water body are met or, where the standards of classification of the receiving water body are not met, the discharge will not cause or contribute to the failure of the water body to meet the standards of classification;
 - (d) Where the actual quality of any classified receiving water body exceeds the minimum standards of the next highest classification, that higher water quality will be maintained and protected; and
 - (e) Where a discharge will result in lowering the existing quality of any water body, the Department has made the finding, following opportunity for public participation, that this action is necessary to achieve important economic or social benefits to the State.
4. The discharge will be subject to effluent limitations that require application of best practicable treatment.

ACTION

THEREFORE, the Department APPROVES the application of the MARS HILL UTILITY DISTRICT to discharge up to a monthly average of 1.0 million gallons per day (MGD) of secondary treated sanitary waste water to the Prestile Stream, Class B, SUBJECT TO THE ATTACHED SPECIAL CONDITIONS, and all applicable standards and regulations including:

1. Maine Pollutant Discharge Elimination System Permit Standard Conditions Applicable To All Permits," revised January 16, 2001, copy attached.
2. The attached Special Conditions, including any effluent limitations and monitoring requirements.
3. This permit modification/renewal expires five years from the date of signature below.

DONE AND DATED AT AUGUSTA, MAINE, THIS 10th DAY OF December, 2002.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

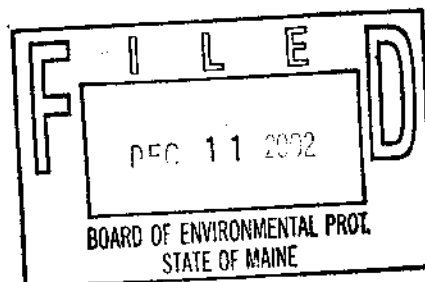
BY:

MARTHA KIRKPATRICK, Commissioner

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: May 20, 2002

Date of application acceptance: May 28, 2002



Date filed with Board of Environmental Protection _____

This order prepared by Gregg Wood, BUREAU OF LAND AND WATER QUALITY

SPECIAL CONDITIONS

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

- During the period beginning the effective date of the permit and lasting through permit expiration, the permittee is authorized to discharge secondary treated sanitary waste waters from **OUTFALL #001** to Prestile Stream. Such discharges shall be limited and monitored by the permittee as specified below. The alpha-numeric values italicized in the table below are not limitations or footnotes but codes used by Department personnel to code the monthly Discharge Monitoring Reports (DMR's).

Effluent Characteristic	Discharge Limitations				Monitoring Requirements			
	Monthly Average lb/day	Weekly Average lb/day	Daily Maximum lb/day	Monthly Average as specified	Weekly Average as specified	Daily Maximum as specified	Measurement Frequency as specified	Sample Type as specified
Flow [50050]	1.0 MGD ⁽¹⁾ [03]	Report MGD ⁽¹⁾ [03]	Report MGD ⁽¹⁾ [03]	---	---	---	Continuous [99/99]	Recorder [RC]
Biochemical Oxygen Demand ^(2,3) [00310]	250 #/day [26]	375 #/day [26]	417 #/day [26]	30 mg/L [19]	45 mg/L [19]	50 mg/L [19]	2/Week [02/07]	Composite [24]
Total Suspended Solids ^(2,3) [00530]	250 #/day [26]	375 #/day [26]	417 #/day [26]	30 mg/L [19]	45 mg/L [19]	50 mg/L [19]	2/Week [02/07]	Composite [24]
Settleable Solids [00545]	---	---	---	---	---	0.3 ml/L [25]	5/Week [05/07]	Grab [GR]
<u>E. Coli</u> Bacteria ⁽⁴⁾ [31633] May 15 – September 30	---	---	---	64/100 ml ⁽⁵⁾ [13]	---	427/100 ml [13]	1/Week [01/07]	Grab [GR]
<u>Total Residual Chlorine</u> ⁽⁴⁾ [50060] May 15 – May 31 June 1 – September 30	---	---	---	0.1 mg/L 0.83 mg/L [19]	---	0.3 mg/L 1.0 mg/L [19]	5/Week 5/Week [05/07]	Grab Grab [GR]
<u>Total Phosphorus</u> ^[00665] May 15 – September 30	---	19 #/day ⁽⁶⁾ [26]	---	---	2.3 mg/L [19]	---	2/Week [02/07]	Grab [GR]

SPECIAL CONDITIONS

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (cont'd) – OUTFALL #001

Effluent Characteristic	Discharge Limitations				Monitoring Requirements			
	Monthly Average lb/day	Weekly Average lb/day	Daily Maximum lb/day	Monthly Average as specified	Weekly Average as specified	Daily Maximum as specified	Measurement Frequency As specified	Sample Type as specified
pH (Std. Unit) [00400]	---	---	---	---	---	6.0 – 9.0 [12]	5/Week [0507]	Grab [GR]
Stream Flow (7) [00060]	Report (cfs) [08]	---	Report (cfs) [08]	---	---	---	Continuous [0909]	Recorder [RC]
Dilution Factor [00083] Oct. 1 – Nov 30, Mar. 1 – May 31	---	---	50:1 [10]	---	---	---	1/Day [0101]	Calculate [CA]
June 1 – Sept. 30, Dec 1 – Feb 28	---	---	75:1 [10]	---	---	---	1/Day [0101]	Calculate [CA]

Screening Level Testing – Beginning twelve months prior to the expiration date of the permit.

Effluent Characteristic	Discharge Limitations				Monitoring Requirements			
	Monthly Average as specified	Weekly Average as specified	Daily Maximum as specified	Monthly Average as specified	Weekly Average as specified	Daily Maximum as specified	Measurement Frequency as specified	Sample Type as specified
Whole Effluent Toxicity (WET) (8) A-NOEL Ceriodaphnia dubia [TDA3B] Salvelinus fontinalis [TDA6F]	---	---	---	---	---	Report % [23] Report % [23]	1/Year [01/YY] 1/Year [01/YY]	Composite [24] Composite [24]
C-NOEL Ceriodaphnia dubia [TBP3B] Salvelinus fontinalis [TBO6F]	---	---	---	---	---	Report% [23] Report% [23]	1/Year [01/YY] 1/Year [01/YY]	Composite [24] Composite [24]
Chemical Specific (9) [50008]	---	---	---	---	---	Report ug/L [28]	1/Year [01/YY]	Composite/ Grab [24/GR]

SPECIAL CONDITIONS**A. LIMITATIONS AND MONITORING REQUIREMENTS**

3. During the period beginning the effective date of the permit and lasting through the permit expiration date, **GROUND WATER MONITORING WELLS MW-4 AND MW-8**, shall be limited and monitored as specified below.

	Daily Maximum as specified	Measurement Frequency as specified	Sample Type as specified
Depth to Water Level Below Landsurface	Report (feet) ⁽¹⁰⁾	1/5 Years ⁽¹¹⁾	Measure
[72019]	[27]	[01/5Y]	[MS]
Nitrate-Nitrogen	10 mg/L	1/5 Years ⁽¹¹⁾	Grab
[00620]	[19]	[01/5Y]	[GR]
Chloride (Total)	Report (mg/L)	1/5 Years ⁽¹¹⁾	Grab
[00940]	[19]	[01/5Y]	[GR]
Specific Conductance	Report (umhos/cm)	1/5 Years ⁽¹¹⁾	Grab
[00095]	[11]	[01/5Y]	[GR]
Temperature (°F)	Report (°F)	1/5 Years ⁽¹¹⁾	Grab
[00011]	[15]	[01/5Y]	[GR]
pH (Standard Units)	Report (S.U.)	1/5 Years ⁽¹¹⁾	Grab
[00400]	[12]	[01/5Y]	[GR]
Total Suspended Solids	Report (mg/L)	1/5 Years ⁽¹¹⁾	Grab
[00530]	[19]	[01/5Y]	[GR]
Metals (Total): Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Nickel and Zinc	Report ug/L	1/5 Years ⁽¹¹⁾	Grab
[01002, 01027, 01034, 01042, 01051, 71900, 01067, 01092]	[28]	[01/5Y]	[GR]

SPECIAL CONDITIONS

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (cont'd)

Footnotes:

Sampling Locations: All effluent sampling to determine compliance with this permit shall be taken after the chlorine contact chamber even in the non-disinfection season. Any change in sampling location must be approved by the Department in writing. Sampling and analysis must be conducted in accordance with; a) methods approved by 40 Code of Federal Regulations (CFR) Part 136, b) alternative methods approved by the Department in accordance with the procedures in 40 CFR Part 136, c) the most current federally approved edition of Standard Methods for the Examination of Water and Waste Water or d) as otherwise specified by the Department. Samples that are sent out for analysis shall be analyzed by a laboratory certified by the State of Maine's Department of Human Services.

1. **Flow** - The permittee is required to report the monthly average, weekly average and daily maximum flow discharged during a calendar month. A dilution factor of 50:1 (between the stream flow and discharge) shall be maintained at all times during the periods October 1st – November 30th and March 1st – May 31th and a dilution factor of 75:1 shall be maintained at all times during the periods June 1st - September 30th and December 1st – February 28th of each year.
2. **Biochemical oxygen demand (BOD₅) and total suspended solids (TSS)** - The monthly average, weekly average and daily maximum concentration limits are in effect at all times. The monthly average, weekly average and daily maximum mass limitations are subject to the "sliding scale" discharge regime such that the limitations are derived from the allowable discharge flow (maintaining the applicable dilution factor) and the applicable concentration limits.
3. **Percent removal** - The treatment facility shall maintain a minimum of 85 percent removal of both BOD₅ and TSS. The percent removal shall be based on a 12-month rolling average. The percent removal shall be waived when the monthly average influent concentration is less than 200 mg/L. The permittee is not required to report percent removal on the monthly Discharge Monitoring Report (DMR) but is required to calculate and report percent removal on the Department's monthly "49 Form".
4. ***E. coli* bacteria and total residual chlorine** - Limits are seasonal and apply between May 15 and September 30 of each calendar year. The Department reserves the right to require year-round disinfection to protect the health and safety and welfare of the public.
5. ***E. coli* bacteria** – The monthly average limit is a geometric mean value and shall be calculated and reported as such.

SPECIAL CONDITIONS

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (cont'd)

Footnotes:

6. **Total phosphorus** - The weekly average mass limitation is subject to the "sliding scale" discharge regime such that the limitations are derived from the allowable discharge flow (maintaining the applicable dilution factor) and the applicable concentration limit.
7. **Stream Flow** - Report the monthly average and minimum daily stream flows recorded for the month. Stream flow in the vicinity of the outfall pipe shall be measured on a continuous basis. Annually (at a minimum) the permittee shall re-calibrate or verify that the flow measurement devices (stream and discharge) are accurate.
8. **Whole effluent toxicity (WET) testing** - Definitive WET testing is a multi-concentration testing event (a minimum of five dilutions set at levels to bracket the critical acute and chronic threshold of 2.0% - mathematical inverse of the dilution factor of 50:1), which provides a point estimate of toxicity in terms of No Observed Effect Level, commonly referred to as NOEL or NOEC. A-NOEL is defined as the acute no observed effect level with survival as the end point. C-NOEL is defined as the chronic no observed effect level with survival, reproduction and growth as the end points.

Beginning twelve months prior to the expiration date of the permit, the permittee shall conduct screening level acute and chronic WET testing at a frequency of 1/Year. Testing shall be conducted on the water flea (*Ceriodaphnia dubia*) and the brook trout (*Salvelinus fontinalis*) during the March 1st - May 31st discharge period. Results shall be reported to the Department within 30 days of receiving the results from the contract laboratory. Toxicity tests must be conducted by an experienced laboratory approved by the Department. The laboratory must follow procedures as described in the following U.S.E.P.A. methods manuals.

- a. Lewis, P.A. et al., Short Term Methods for Estimating the Chronic Toxicity of Effluent and Receiving Water to Freshwater Organisms, Third Edition, July 1994 EPA/600/4-91/002.
- b. Weber, C.I. et al., Methods for Measuring the Acute Toxicity of Effluent and Receiving Waters to Freshwater and Marine Organisms, Fourth Edition, August 1993 EPA/600/4-90/027F.

SPECIAL CONDITIONS

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (cont'd)

Footnotes:

The permittee is also required to analyze the effluent for the parameters specified in the analytic chemistry on the form in Attachment A of this permit **each and every time a WET test is performed.**

9. **Chemical specific testing - Beginning twelve months prior to the expiration date of the permit,** the permittee shall conduct screening level chemical specific (priority pollutant) testing at a frequency of 1/Year. Priority pollutants are those listed by the USEPA pursuant to Section 307(a) of the Clean Water Act and published a 40 CFR Part 122, Appendix D, Tables II and III. Chemical specific testing shall be conducted on samples collected at the same time as those collected for whole effluent toxicity tests, where applicable. Chemical specific testing shall be conducted using methods that permit detection of a pollutant at existing levels in the effluent or that achieve minimum reporting levels of detection as specified by the Department. Results shall be reported to the Department within 30 days of receiving the results from the contract laboratory. For the purposes of Discharge Monitoring Report (DMR) reporting, enter a "1" for yes, *testing done this monitoring period* or "NODI-9" *monitoring not required this period.*

All mercury sampling shall be conducted in accordance with EPA's "clean sampling techniques" found in EPA Method 1669, Sampling Ambient Water For Trace Metals At EPA Water Quality Criteria Levels. All mercury analysis shall be conducted in accordance with EPA Method 1631, Determination of Mercury in Water by Oxidation, Purge and Trap, and Cold Vapor Fluorescence Spectrometry

10. Measured to the nearest one tenth (1/10th) of a foot as referenced from the surface of the ground at the base of the monitoring well.
11. Ground water sampling shall be conducted in the months of **April and October of calendar year 2005**. Sampling shall be conducted in accordance with federally approved methods for sampling, handling and preservation. Samples sent out for analysis shall be analyzed by a laboratory certified by the State of Maine's Department of Human Services and in accordance with methods approved by 40 Code of Federal Regulations (CFR) Part 136 or Standard Methods.

SPECIAL CONDITIONS

B. NARRATIVE EFFLUENT LIMITATIONS

1. The effluent shall not contain a visible oil sheen, foam or floating solids at any time which would impair the usages designated by the classification of the receiving waters.
2. The effluent shall not contain materials in concentrations or combinations which are hazardous or toxic to aquatic life, or which would impair the usages designated by the classification of the receiving waters.
3. The discharge shall not cause visible discoloration or turbidity in the receiving waters which would impair the usages designated by the classification of the receiving waters.
4. Notwithstanding specific conditions of this permit the effluent must not lower the quality of any classified body of water below such classification, or lower the existing quality of any body of water if the existing quality is higher than the classification.

C. DISINFECTION

If chlorination is used as a means of disinfection, an approved chlorine contact tank providing the proper detention time consistent with good engineering practice must be utilized, followed by a dechlorination system if the total residual chlorine (TRC) cannot be met by dissipation in the detention tank. The total residual chlorine in the effluent shall at no time cause any demonstrable harm to aquatic life in the receiving waters. The dose of chlorine applied shall be sufficient to leave a TRC concentration that will effectively reduce bacteria to levels below those specified in Special Condition A, "*Effluent Limitations and Monitoring Requirements*", above.

D. TREATMENT PLANT OPERATOR

The treatment facility must be operated by a person holding a **Grade II** certificate pursuant to Title 32 M.R.S.A., Section 4171 et seq. All proposed contracts for facility operation by any person must be approved by the Department before the permittee may engage the services of the contract operator.

E. REOPENING OF PERMIT FOR MODIFICATIONS

Upon evaluation of the tests results required by this permitting action, new site specific information, or any other pertinent test results or information obtained during the term of this permit, the Department may, at anytime and with notice to the permittee, modify this permit to: 1) include effluent limits necessary to control specific pollutants or whole effluent toxicity where there is a reasonable potential that the effluent may cause water quality criteria to be exceeded; (2) require additional monitoring if results on file are inconclusive; or (3) change monitoring requirements or limitations based on new information.

SPECIAL CONDITIONS

F. MONITORING AND REPORTING

Monitoring results obtained during the previous month shall be summarized for each month and reported on separate Discharge Monitoring Report (DMR) forms provide by the Department and **postmarked on or before the thirteenth (13th) day of the month** or hand-delivered to a Department Regional Office such that the DMR's are received by the Department on or before the fifteenth (15th) day of the month following the completed reporting period. A signed copy of the Discharge Monitoring Report and all other reports required herein shall be submitted to the following address:

Maine Department of Environmental Protection
Northern Maine Regional Office
Bureau of Land & Water Quality
1235 Central Drive, Skyway Park
Presque Isle, ME. 04769-2094

G. UNAUTHORIZED DISCHARGES

The permittee is authorized to discharge only in accordance with the terms and conditions of this permit and only from Outfall #001. Discharges of waste water from any other point source are not authorized under this permit, but shall be reported in accordance with Standards Condition B(5)(*Bypass*) of this permit.

H. CHAPTER 530.5(B)(7)(c)(iii) CERTIFICATION

By December 31 of each calendar year, the permittee shall provide the Department with a certification describing any of the following that have occurred since the effective date of this permit:

1. Increases in the number, types and flows of industrial, commercial or domestic discharges to the facility that in the judgment of the Department may cause the receiving water to become toxic.
2. Changes in the condition or operations of the facility that may increase the toxicity of the discharge.
3. Changes in storm water collection or inflow/infiltration affecting the facility that may increase the toxicity of the discharge.
4. Increases in the type or volume of hauled wastes accepted by the facility.

SPECIAL CONDITIONS

I. LIMITATIONS FOR INDUSTRIAL USERS

Pollutants introduced into the waste water collection and treatment system by a non-domestic source (user) shall not pass through or interfere with the operation of the treatment system.

J. NOTIFICATION REQUIREMENT

In accordance with Standard Condition D, the permittee shall notify the Department of the following:

1. Any introduction of pollutants into the waste water collection and treatment system from an indirect discharger in a primary industrial category discharging process wastewater; and
2. Any substantial change in the volume or character of pollutants being introduced into the waste water collection and treatment system by a source introducing pollutants into the system at the time of permit issuance. For the purposes of this section, notice regarding substantial change shall include information on:
 - (a) the quality and quantity of waste water introduced to the waste water collection and treatment system; and
 - (b) any anticipated impact caused by the change in the quantity or quality of the waste water to be discharged from the treatment system.

K. OPERATION & MAINTENANCE (O&M) PLAN

The permittee shall have a current written comprehensive Operation & Maintenance (O&M) Plan. The plan shall provide a systematic approach by which the permittee shall at all times, properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit.

By December 31 of each year, or within 90 days of any process changes or minor equipment upgrades, the permittee shall evaluate and modify the O&M Plan including site plan(s) and schematic(s) for the waste water treatment facility to ensure that it is up-to-date. The O&M Plan shall be kept on-site at all times and made available to Department and EPA personnel upon request.

Within 90 days of completion of new and or substantial upgrades of the waste water treatment facility, the permittee shall submit the updated O&M Plan to their Department inspector for review and comment.

SPECIAL CONDITIONS

L. WET WEATHER FLOW MANAGEMENT PLAN

The treatment facility staff shall develop and maintain a Wet Weather Management Plan to direct the staff on how to operate the facility effectively during periods of high flow. The Department acknowledges that the existing collection system may deliver flows in excess of the monthly average design capacity of the treatment plant during periods of high infiltration and rainfall.

On or before June 1, 2003, the permittee shall submit to the Department for review and approval, a new or revised Wet Weather Management Plan which conforms to Department guidelines for such plans. The revised plan shall include operating procedures for a range of intensities, address solids handling procedures (including septic waste and other high strength wastes if applicable) and provide written operating and maintenance procedures during the events.

Once the Wet Weather Management Plan has been approved, the permittee shall review their plan annually and record any necessary changes to keep the plan up to date.

ATTACHMENT A

FRESHWATER WHOLE EFFLUENT TOXICITY (WET) TEST REPORT

Facility _____ DEP License No _____ NPDES permit No _____

Contact person _____ Telephone No _____

Date initially sampled _____ Date tested _____ Chlorinated? _____

Test type mm/dd/yy screening mm/dd/yy surveillance _____ Dechlorinated? _____

Results _____ % effluent _____ Test required by: DEP/EPA

	Water flea	Trout	Fathead
LC50			
A-NOEL			
C-NOEL			

Receiving Water Concentration
A-NOEL
C-NOEL

Data summary	water flea		tro ut		fat head	
	% survival	no. young	% survival	final wt (mg)	% survival	final wt (mg)
QC standard	A>90	C>80	A>90	C>80	A>89	C>79
lab control						
river water control						
conc. 1 (%)						
conc. 2 (%)						
conc. 3 (%)						
conc. 4 (%)						
conc. 5 (%)						
conc. 6 (%)						
stat test used						

place * next to values statistically different from controls for trout show final wt and % incr for both controls

Reference toxicant	water flea		tro ut		fat head	
	LC50/A-NOEL	C-NOEL	LC50/A-NOEL	C-NOEL	LC50/A-NOEL	C-NOEL
toxicant / date						
limits (mg/l)						
results (mg/l)						

Comments _____

Laboratory Conducting Test. To the best of my knowledge this information is true, accurate, and complete

signature _____ company _____
 printed name _____ address _____
 tel. no. _____

**ANALYTICAL CHEMISTRY RESULTS
FRESHWATER TESTS**

Date collected _____

Date analyzed _____

mm/dd/yy

mm/dd/yy

Lab ID No. _____

Analyte	Report Units	Results		Detection level	Method
		receiving water	effluent		
Alkalinity	mg/L			mg/L	
Ammonia nitrogen	µg/L			µg/L	
Specific conductance	µmhos			µmhos	
Total residual chlorine	mg/L			mg/L	
Total organic carbon	mg/L			mg/L	
Total solids	mg/L			mg/L	
Total suspended solids	mg/L			mg/L	
Total aluminum	µg/L			µg/L	
Total cadmium	µg/L			µg/L	
Total calcium	mg/L			mg/L	
Total chromium	µg/L			µg/L	
Total copper	µg/L			µg/L	
Total hardness	mg/L			mg/L	
Total lead	µg/L			µg/L	
Total magnesium	µg/L			µg/L	
Total nickel	µg/L			µg/L	
Total zinc	µg/L			µg/L	
other (pH)	S.U.			S.U.	
other ()					

Comments _____

Laboratory conducting test. To the best of my knowledge this information is true, accurate, and complete

signature _____ lab name _____
 printed name _____ address _____
 tel. no. _____